

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052712 A1

(51) International Patent Classification⁷: G05D 23/24, 23/20

(21) International Application Number: PCT/BR2004/000232

(22) International Filing Date: 24 November 2004 (24.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: P10305447-0 25 November 2003 (25.11.2003) BR

(71) Applicant (for all designated States except US): EMPRESA BRASILEIRA DE COMPRESSORES S.A.-EMBRACO [BR/BR]; Rua Rui Barbosa, 1020, 89219-901 - Joinville - SC (BR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROMARIZ FERREIRA, Rogerio [BR/BR]; Rua Borba Gato, 700, Bloco A, apto. 902, 89203-020 - Joinville, SC (BR). SCHWARZ, Marcos, Guilherme [BR/BR]; Rua General Osório, 257 - casa 2, 89204-320 Joinville - SC (BR).

(74) Agent: DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA; Caixa Postal 2142, Rua Marquês de Olinda, 70, 22251-040 Rio de Janeiro, RJ (BR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PI, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

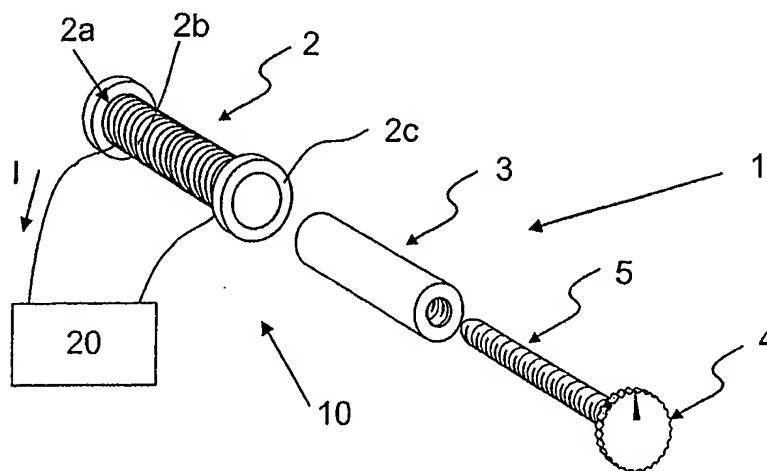
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A TEMPERATURE SET POINT ADJUSTING AND A TEMPERATURE OF AN ENVIRONMENT MEASURING SYSTEM FOR A COOLING SYSTEM, A METHOD OF ADJUSTING THE TEMPERATURE SET POINT AND MEASURING THE TEMPERATURE OF AN ENVIRONMENT AND A SENSING ASSEMBLY



WO 2005/052712 A1

a resistance (RS) and the system (10) measuring the temperature of the environment (T_s) from the alteration of the resistance (Rs) of the set of turns (2). The adjustment of the temperature set point of the environment (T_s) is effected from the displacement of the interaction element (3) at the set of turns (2), this adjustment of set point being monitored by the processing unit (20) from the alteration of the variable inductance (L_s) of the set of turns (2).

(57) Abstract: A system of adjusting the temperature set point of a cooling system and measuring the temperature of an environment, a temperature sensing assembly (1) for monitoring, a method of measuring and adjusting the temperature set point are described. The a temperature set point adjusting and a temperature of an environment measuring system for a cooling system comprises a sensing assembly (1), a processing unit (20), the sensing assembly (1) comprising a set of winding turns (2), an interaction element (3) detachably associable with the set of turns (2), the set of turns (2) being subjected to a sampling voltage (Vp) and having